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(54) Metal halide lamp

(57) The color temperature of irradiation light from a metal halide lamp comprising an arc tube filled with metal halide, mercury and inert gas, electrodes at the opposite ends of the arc tube and a glass housing of housing said arc tube is lowered to 2000 - 6000 K by a selective transmission coating. The selective transmission coating which transmits irradiation light of longer wavelengths generated between said electrodes and reflects the irradiation light of shorter wavelengths is applied to the outer

surface of said arc tube. The selective transmission coating transmits the irradiation light of wavelengths longer than nearly 600 nm and reflects the irradiation light of wavelengths shorter than nearly 600 nm. This coating is particularly effective for a metal halide lamp filled with metal halide which comprises dysprosium, neodymium and iodine of cesium and the color temperature of the irradiation light inside the arc tube is 6000 -7500 K.



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EUROPEAN SEARCH REPORT

Application Number
EP 95 30 3215

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.)		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim			
P, X	DE-A-43 18 905 (PATRA PATENT TREUHAND) 8 December 1994	1-3	H01J61/40 H01J61/82		
A	* page 2, column 55 - column 61; figure 5 * * page 4, line 46 - page 6, line 28; tables *	9			
A	EP-A-0 418 784 (HITACHI LTD) 27 March 1991 * page 3, line 1 - line 9 * * page 3, line 39 - page 4, line 37; figures 2,3; tables *	11			
A	EP-A-0 400 980 (IWASAKI ELECTRIC CO LTD) 5 December 1990 * abstract *	4,10			
			TECHNICAL FIELDS SEARCHED (Int.Cl.)		
			H01J		
The present search report has been drawn up for all claims					
Place of search	Date of completion of the search	Examiner			
THE HAGUE	28 December 1995	Schaub, G			
CATEGORY OF CITED DOCUMENTS					
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document					
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document					